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The United States tmerica

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Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person or persons having title-to-this patent-the-right to exclude others from making, using or selling the invention throughout the United States of America for the term of seventeen years from the date of this patent, subject to the payment of maintenance fees as provided by law.

Commissioner of Patents and Trademarks

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US005401305A

United States Patent [19]

Russo et al.

[11] Patent Number:

5,401,305

Mar. 28, 1995

[45] Date of Patent:

[54]	COATING COMPOSITION FOR GLASS		
[75]	Inventors:	David A. Russo, Norristown; Ryan R. Dirkx, Glenmoore, both of Pa.; Glenn P. Florczak, East Brunswick, N.J.	

[73] Assignee: Elf Atochem North America, Inc., Philadelphia, Pa.

[21] Appl. No.: 104,125

[22] Filed: Dec. 13, 1993

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 814,366, Dec. 26, 1991, abandoned, and a continuation-in-part of Ser. No. 814,352, Dec. 27, 1991, abandoned.

[52]	U.S. Cl	106/287.1; 106/287.13;
	106/287.14;	106/287.15; 106/287.16
[58]	Field of Search	106/287.13, 287.14,
	10	6/287.15, 287.16, 287.1

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Primary Examiner—David Brunsman Attorney, Agent, or Firm—Stanley A. Marcus

[57] ABSTRACT

A composition for coating glass by chemical-vapor deposition comprises a mixture of a tin oxide precursor monobutyltin trichloride, a silicon dioxide precursor tetraethylorthosilicate, and an accelerant such as triethyl phosphite; the composition is gaseous below 200° C., and permits coating glass having a temperature from 450° to 650° C. at deposition rates higher than 350 Å/sec. The layer of material deposited can be combined with other layers to produce an article with specific properties such as controlled emissivity, refractive index, abrasion resistance, or appearance.

27 Claims, No Drawings